

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – IV • EXAMINATION – SUMMER • 2014**

**Subject Code: 240001**

**Date: 19-05-2014**

**Subject Name: Dispensing Pharmacy – I**

**Time: 02:30 pm - 05:30 pm**

**Total Marks: 80**

**Instructions:**

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1** (a) Define prescription. Discuss several steps involved in the dispensing procedure. **06**  
(b) Give the labeling requirements of the following dosage form **05**  
Liniment, Eye drop, Enema, Linctus, Inhalation  
(c) Calculate the amount of NaCl required for making 100 ml of **05**  
1 %w/v solution of boric acid isotonic with lacrimal fluid. Freezing point depression of (i) 1 %w/v boric acid solution is - 0.29 °C, (ii) 1 %w/v NaCl solution is - 0.58 °C and (iii) lacrimal fluid is - 0.52°C.
- Q.2** (a) Define Posology. Discuss briefly about the factors that affect the fixation of dose **06**  
of drug.  
(b) Describe various methods of calculating doses for children and infants. **05**  
(c) An antibiotic available as injection containing 10 mg of the antibiotic in every ml. **05**  
How many ml are needed for an infant weighing 8kg, the dose being 1.4mg/kg body weight?
- Q.3** (a) Define Mixtures. Describe the general method of dispensing of mixtures **06**  
containing indiffusible solids.  
(b) Differentiate between Flocculated suspension and Deflocculated suspension. **05**  
(c) Differentiate between Syrup IP and Syrup USP. **05**
- Q.4** (a) Define hard capsules and discuss its merits and demerits. **06**  
(b) Describe a method to determine displacement values of a drug for moulded **05**  
dosage form.  
(c) Prepare and dispense 5 cocoa butter suppositories each containing 120mg of **05**  
Boric acid (Displacement value of Boric acid = 1.5). Mould capacity=2gm.
- Q.5** (a) Describe the dry gum and wet gum methods for emulsification. **06**  
(b) What do you mean by cracking of emulsion? Discuss various reasons for the **05**  
cracking of emulsion.  
(c) Give the different tests for identification of type of an emulsion. **05**
- Q. 6** (a) Define powder and discuss its merits and demerits. **06**  
(b) Discuss general method of preparation of powders. **05**  
(c) Discuss dispensing technique for hygroscopic and deliquescent powders and **05**  
powder containing potent drug.
- Q.7** Write note on  
(a) Emulgent. **06**  
(b) House hold measure. **05**  
(c) Inhalation. **05**

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